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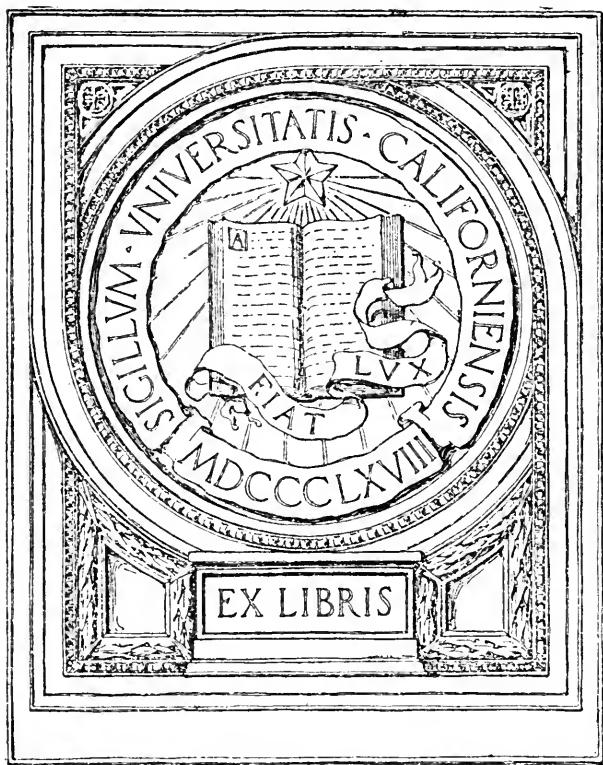
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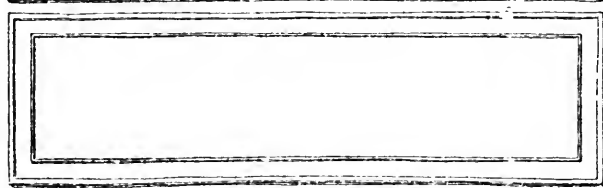


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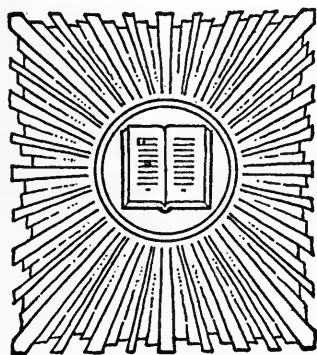


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# HUDELSON ENGLISH COMPOSITION SCALE



HUDELSON

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# HUDELSON ENGLISH COMPOSITION SCALE

BY

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UNIV. OF  
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HECS-1

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## INTRODUCTION

**T**HE Hudelson English Composition Scale will appear as the Virginia Supplement to the Hillegas Scale in Part II of the Report of the Survey of the Virginia Public Schools, which is now in press. It is here printed separately and in advance, because of the repeated requests that have been made for it. It is believed that this scale represents a distinct improvement over the scales now available. Mr. Hudelson has worked out unusually helpful directions for the use of the scale in scoring compositions and also directions for the training of scorers through practice on compositions of known values. It is a pleasure to commend this scale to teachers of composition and to others who desire a usable measuring instrument in this field.

M. E. HAGGERTY

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# CONTENTS

SECTION	PAGE
I. PURPOSE AND USE . . . . .	1
II. THE HUDELSON SCALE . . . . .	4
III. HOW TO USE THE HUDELSON SCALE . . . . .	20
IV. SAMPLES FOR PRACTICE IN SCORING . . . . .	29



# HUDELSON

## ENGLISH COMPOSITION SCALE

### I

#### PURPOSE AND USE

ONE of the convictions growing out of educational surveys is the need of a more reliable means of evaluating composition ability than the individual judgments employed by teachers. Efforts at acquainting English teachers with the judicial use of existing measuring devices forces the conclusion that a scale is needed for the rank and file of teachers of composition in which the steps are uniform throughout. Admirable as the other scales are, the uneven steps between the various samples render the use of such instruments confusing to teachers untrained in the employment of these devices. The present scale has been devised to obviate this confusion.

#### HOW THE HUDELSON SCALE WAS DEVISED

The Hudelson Scale is composed of compositions written by first-year high school pupils of Virginia during the State Educational Survey, in May, 1919. Since these compositions were scored on the Nassau County Supplement,<sup>1</sup> which in turn was based upon the Hillegas Scale,<sup>2</sup> the methods employed in establishing the steps of the original scale apply to the steps in the present scale.

Approximately one thousand Virginia compositions were scored on the Nassau County Scale by one experienced

<sup>1</sup> Trabue, M. R., *Nassau County Supplement to the Hillegas Scale*. Bureau of Publications, Teachers College, New York City.

<sup>2</sup> Hillegas, M. B., *A Scale for the Measurement of Quality in English Composition*. Bureau of Publications, Teachers College, New York City.

## ENGLISH COMPOSITION SCALE

scorer. This scorer's reliability was confirmed by testing at frequent intervals during the scoring, and, at the end, by comparing his scores on random sets of ten compositions with the median rating of ten other trained scorers. His judgment averaged .14 of a scale step from the average judgment of the ten trained scorers. One hundred of these scored compositions, ranging from the poorest to the best, were then selected, and faithfully reproduced in mimeographed form; the specimens were shuffled, and finally scored by ninety-six composition teachers, most of whom had had considerable experience with composition standards, and all of whom had just been given two weeks of intensive training at Teachers College, New York, in the use of the Nassau County Supplement. No teacher's scores were counted whose average deviation from the true value was more than .5, or a half step, on the Nassau Scale. The values accompanying the samples in the Hudelson Scale (see pages 4 to 19) represent the median<sup>1</sup> judgments of the ninety-six scorers. When two or more samples received the same median score, that one was selected for the scale upon which the fewest number of distinctly erroneous judgments had been made.

### SOURCE OF THE SAMPLES

The samples which constitute the scale are given on the following pages (4 to 19), and directions for the use of the scale will be found following the samples (pages 20 to 27). The first eleven specimens, values 2.0 to 7.0, are Virginia compositions. Samples 7.5, 8.0, 8.5, and 9.5 are selected from Professor E. L. Thorndike's *English*

<sup>1</sup> The median rating is that score above and below which there are an equal number of ratings. The values denoted in the margin at the left are accurate enough for all practical purposes. The exact medians appear at the upper left-hand corner.

*Composition — 150 Specimens Arranged for Use in Psychological and Educational Experiments* (Bureau of Publications, Teachers College). The values there assigned are used here. Example 9.0 is chosen from the Thorndike Extension to the Hillegas Scale, with the value there assigned. Samples 9.0 and 9.5 are the only specimens in the Hudelson Scale not written by school children.

## II

### THE HUDELSON SCALE

2.067

*Sample 1*

The Most Exciting ride I ever had.

2.0 The Most exciting ride I ever had was a Hay ride, it was early in the morning when we went out on the hay ride it was quite a injoyable trip every one seemed to be so cheerfully the rode that we were traveling on it was very hilly on of the parties took sick and far a little while no one did not think that the Girl were as sick as she was all at once she come mence comeplainning so she arroused ones curosimy we found out that the girl were verry ell thought she was going to die.

2.50

*Sample 2*

## The Most Exciting Ride I Ever Had

One dag Friends I decided to go car riding my friend and myself started.

2.5 We was going arround a sharp curve and another car was coming toward us the driver did not know what to do. The road was so narrow we couldn't stop. So the other car ran into us and turned us over the bank. and it hurt three of my frimses very bad.

3.00

*Sample 3*

The Most Exerciting I ever Had:

3.0

The Most exerciting ride I ever had was When I was on my way to Petersburg. It was one Sunday Morning and two car's full of people went to Camp Lee and I was with in the crowd the car I was in was a Cadalic 8 and a very small boy was driving it, we were runing very fast when we meet a small car and We had a great conlusion our car tore the small one all to pieces and kill three people whom were in it,

We took the dead bodies and the man who was not killed on to Petersburg with us and there found out who they were. We enjoyed the day hugely even if we did have a terrible wreck:



3.557

*Sample 4*

## The Most Exciting Ride I Ever Had

Summer before last my sister was going to see her girl friend, she lived out in the country, forty miles from here. we had a car, so my brother said he would take her out there and I could go with them, we ask daddy if he cared and he, said no,

3.5 So that night about seven thirty we left home, and went by town to get some gasoline. then we left for the country, we got out of town the roads were very bad at first, but we went on. we forgot the way out there so we ask someone how we could get there, they told us, so we kept on, the roads were gradually getting better. we got half of the way, then we ask some one else to direct us to the road to take, they did, we went on as they told us, we got out in the country on the wrong road, but we did not know it until we ask some one. then brother got mad and jerked the car from one side of the road to the other. I didn't think we were ever going to get there or anywhere else alive. we turned around and went back, and took the right road. and got there about twelve o'clock. that night

4.028

*Sample 5*

The Most exciting Ride I ever had.

4.0 It was just after a very hard Rain. and the Roads were slippery and muddy. My old friend and I honomed a car and started out for a spin. We had'nt gone far before we saw that the Road swere in no condition for motoring. We kept going thought and never stopped for nothing that nnorning. Along about the middle of the evening wa saw just ahead of us a lantty slaping hill. We though we could make it all right so we started thourgh when we reached the middle of the clay hill we could'nt go any further we tried and tried to get out of the place but all in vain. So we had to get down and go all the way home on foot. We sent for car the next day and some one had took all the tires we had on the car. We soon had her right again and ham ben ridding on her sence then.

4.509

*Sample 6*

The Most Exciting ride I ever had.

One day my brother took me to Richmond in his racer. We did not go fast zoing down. We spent two day in Richmond. We had a good time there.

When we started back my brother said he was going to run fast, which he did.

4.5 We were going along about 40 mile an hour, when, coming around a short carne we saw another car coming at about an equal rate of speed. We missed him by about six inches.

After that the road was stright and the speedometer showed that we were going seventy five mile a hour.

We arrived here just one hour and a half from the time we left Richmond.

5.062

*Sample 7*

The Most Exciting Ride I Ever Had

It was the afternoon of a day in July that we started off in an automobile to go to a place about twenty miles away.

Before we had gotten half way something happened to the engine and we couldn't go very fast.

5.0 We had nearly gotten to the place where we were going when another car with two negroes in it got across the road and wouldn't let us pass. They pulled out their pistols, and one shot, but he did not hit anyone.

He was just coming over to our car when the sheriff happened to come along, and he took the two men and carried them away with him, and we went on our journey.

It is very exciting to have anyone to hold you up on the road and I think you will find it out if you ever have anyone to hold you up.

5.505

*Sample 8***The Most Exciting Ride I Ever Had.**

One afternoon about five o'clock, a car with three boys and two girls stopped in front of my house and asked me to go riding.

5.5 When we reached a narrow place in the road at a corner, another car was coming towards us but we didn't know it until we were about three feet away from that car. Both cars were going very fast and if the brakes hadn't been in good order, we would never have gotten home alive. The two cars hit each other and we were thrown out of our seats. It didn't really hurt us but we were so scared we thought we were hurt. Then we backed out of that narrow place and let the other car go on. In a few minutes we were on our way again. The boy that was driving the car never again tried to speed and we were late getting home that night.

5.933

*Sample 9*

The most exciting ride I ever had.

6.0 The most exciting ride I ever had was when we first got our Pony. One day we started out, and he did very nicely for a while, until he saw a automobile and then the fun began. He tried to turn around right in the road, and when he found that he could not he started to run. There were only two of us in the cart, my brother and myself and neither were very strong. But we pulled back on him for all we were worth, but he seemed to go faster instead of stopping.

After a while the Pony seemed to be getting tired, so he slowed down and was soon alright. We then began to laugh and thought we had had a fine ride and all the excitement that we had been wishing for.

6.50

*Sample 10*

## The Most Exciting Ride I Ever Had.

It was a beautiful afternoon in September. The air was crisp and bracing and I thought it an excellent time for a bicycle ride with my chum, so I immediately went after her.

6.5 We started off in the best of spirits, but we had hardly reached the bridge when our spirits fell rather suddenly. We heard a *very* familiar sound behind us and upon looking back we saw just what we expected, my father's bull, coming on close behind us. The attraction for the bull seemed to be our red ties so we pulled them off as we rode and let them fly; but alas! Mine caught on the back of my bicycle and the bull was so near that it was impossible to stop to take it off, so I exerted all my energy in getting over the bridge.

I had never imagined that a bridge could possibly be as long as that one seemed and it seemed I scarcely touched the bridge either as I crossed it but finally in some manner we reached the opposite shore and got into a place of safety.

7.016

*Sample 11*

## The Most Exciting Ride I Ever Had.

Near the little town I lived in was an Aviation Field. Each day many people could be seen standing in the streets watching the aeroplanes, for it was all very new to us. And on West Street, my street, you could always find children building and imitating the strange new things that seemed to hold such a fascination for us. I was usually among them, too, for I hoped that some day I could ride in a real one.

7.0 One bright Spring afternoon all of us were at our daily tasks of making the miniature airships. It was great fun and all of us were enraptured in our work when the unexpected happened. Hearing familiar noises over our heads we looked up to see several of our objects of imitation "looping the loop". We had never seen them do this before and all of us screamed with fright thinking that the aeroplanes were falling. But after a while we calmed down, seeing that nothing happened, and to our great delight one of the aviators came down and landed in the field back of my house.

I ran to see what he wanted and found that it was gasoline, so I put on my cap and hurried to the next block bringing a man and a great deal of gas with me. The aviator was a very nice man and asked me if I didn't want to go up with him. I consented of course and then followed the most delightful adventure I ever had. High up in the air we went, and so high that I could not see my playmates.

It was the most exciting ride I ever had or ever expect to have and I shall never forget it.



7.50

*Sample 12*

## Westward Ho!

7.5 About ten years ago father bought a large ranch up in the northern part of Minnesota. We were all eager to go to this ranch, so he also bought a fine horse which we called Prince, and a double-seated buggy. We were to drive up. The day of our departure drew near, and about three o'clock, one lovely morning, mother awakened me and told me to hurry as we wanted to start in an hour. I was up and dressed in a few moments, and hurried through breakfast. In half an hour we were ready to start. I had never seen so beautiful a morning. The sun was just showing its great golden face over the horizon. The birds were popping up out of their nest, and all the world seemed to awaken to their thrilling songs. We rode all that day, stopping only for food and drink, and to let the horse rest. So we went on for a week, having the most delightful ride and the best time I have ever spent. One morning about ten o'clock we arrived at our destination, all tired out, but happy. And though other occurrences on the drive have been blotted out of my mind, that one morning when all the world seemed glad will forever be fresh in my memory.

8.00

*Sample 13*

## The Three Islands

8.0 Among the beautiful islands on the Canadian side of the St. Lawrence River, there is a deep and narrow channel which separates three small wooded islands from a large fertile one. Of the three islands the largest is rocky and covered with a growth of stately pines and waving hemlocks, and a carpet of moss and ferns. On the second there is quite an assortment of trees, whose foliage during the fall turns to many shades of gold and red, which colors are greatly enhanced by the dark green background of its neighbor. On the third there is a thick growth of brush, with an occasional small tree. These three islands are so close together, that fallen trees and logs make it possible to walk one to another.

8.50

*Sample 14*

## Deephaven

8.5 Deephaven is a forlorn and quiet little seaside town in New England. As we walked about its silent streets, even the houses seemed asleep. In the chill November air, the dry grass of the nearby marshes crackled faintly and drearily, while in low places the shifting ice creaked and groaned. Even the tall cedar-trees seemed as if they gave neither shade in summer nor shelter in winter, but stood uncompromisingly stiff and straight, as if they could only battle against the wind that threatened to tear them from the hills. The oak-trees still held fast to their dry leaves which made a mournful rustle as the wind swept through the branches.

The lonely landscape reflected the desolate life of the dwellers in Deephaven. The only cheerful in the picture was the presence of a few brave pansies lifting bright faces from under the shelter of some tall stalks of china-aster. As we picked the dainty things we felt a touch of compassionate tenderness even for Deephaven.

9.00

*Sample 15*

## The Hunted Deer

The courage of the panting fugitive was not gone; she was game to the tip of her high-bred ears; but the fearful pace at which she had just been going told on her. Her legs trembled, and her heart beat like a trip-hammer. She slowed her speed perforce, but still fled industriously up the right bank of the stream. When she had

9.0 gone a couple of miles and the dogs were evidently gaining again, she crossed the broad, deep brook, climbed the steep left bank, and fled on in the direction of the Mt. Marcy trail. The fording of the river threw the hounds off for a time; she knew by their uncertain yelping, up and down the opposite bank, that she had a little respite; she used it, however, to push on until the baying was faint in her ears, and then she dropped exhausted upon the ground.

9.50

*Sample 16*

## Niagara Falls

9.5 Oh that I had never heard of Niagara till I beheld it! Blessed were the wanderers of old, who heard its deep roar, sounding through the woods, as the summons to an unknown wonder, and approached its awful brink, in all the freshness of native feeling. Had its own mysterious voice been the first to warn me of its existence, then, indeed, I might have knelt down and worshipped. But I had come thither, haunted with a vision of foam and fury, and dizzy cliffs, and an ocean tumbling down out of the sky — a scene, in short, which nature had too much good taste and calm simplicity to realize. My mind had struggled to adapt these false conceptions to the reality, and finding the effort vain, a wretched sense of disappointment weighed me down. I climbed the precipice, and threw myself on the earth feeling that I was unworthy to look at the Great Falls, and careless about beholding them again.

### III

## HOW TO USE THE HUDELSON SCALE

COMPOSITION scales are most reliable when used to establish the composition achievement of groups. Only highly trained scorers can evaluate the accomplishment of single pupils reliably, and then only through a series of productions. It is desirable to supplement the results of a composition test with a reliable standardized intelligence test and with a common-sense use of the teacher's information about the class or individual; but by the use of the composition scale alone a much more reliable evaluation of achievement may be made than has been possible by the ordinary personal-opinion method.

### PRELIMINARY STUDY OF THE SCALE

Before attempting to score compositions by the use of the Hudelson Scale, a teacher should become familiar with it. He must study the specimen compositions to see why the ninety-six judges ranked them as they did. Then let him rate a set of compositions with samples of the scale before him. He will read a theme, will compare it with one sample at a time until he finds the sample to which the composition most nearly compares in general merit, and will assign the theme that scale value. For example, a teacher reads a theme and then compares it with the scale samples. "This is better than 2.0," he says to himself, "better than 2.5, 3.0, 3.5, 4.0, 4.5, and 5.0. It is not so good as 5.5. but it is nearer in merit to 5.5 than it is to 5.0, so I shall give it the scale value of 5.5." In like manner the teacher proceeds with each theme. When the whole set of themes is finished, the median score for the class can be determined closely enough for all practical purposes by arranging the themes in order of merit and

taking the score of the middle paper. If there is an even number of papers, the median score will be halfway between the scores of the two middle papers.

It must be borne in mind that the scores used in this scale are in no way based upon a 100 per cent, or percentile, scheme. The present system of scores is deliberately designed to wean teachers away from the percentile habit. Each sample is measured from the zero point, and specimen 5.0, for instance, represents five scale steps or units from absolutely no merit. Sample 6.0 represents exactly twice as much composition merit as sample 3.0.

### HOW TO USE RESULTS

This scale is not intended to improve ability. No measuring device in itself does that. Solicitous parents who weigh and measure their baby every day do not suppose for a moment that such a practice will of itself add an ounce to the baby's weight or a cubit to his stature. They can, however, measure the baby's growth; and, by measuring him before and after various diets, they can tell which kind of food best agrees with him. They can also compare their offspring with the progeny next door or with a baby in Hongkong; and, by consulting tables of weight and height for children of the same age, they can compare their baby's physical condition with the standard of many babies of his age.

Composition scales are designed for similar uses. By scoring the compositions of a class on a scale, the teacher can learn the actual achievement in writing of that class. By measuring themes written by the same group of pupils at various times, he can discover what improvement the pupils have made in composition. By measuring them before and after they have been subjected to various methods of instruction, he can deduce which method

## ENGLISH COMPOSITION SCALE

produces best results, and can modify his teaching accordingly. Finally, by comparing the achievement of his pupils with standards based on a large number of pupils of the same grade, he can tell whether his pupils are writing as well as they should. For this last purpose, Trabue's tentative standards, by grades, are given in Table I (page 23), together with the scores made by pupils in a number of schools throughout the country.

Trabue's tentative standards represent the median scores which at least half the class should attain by the end of the respective years. For small schools, where segregation of pupils according to ability would make the cost of instruction prohibitive, there is probably need of a lower set of marks as a standard for the students who are weaker in composition. For this purpose Trabue established tentatively the following standards,<sup>1</sup> to be equaled or excelled by at least 75 per cent of the pupils in a class:

In Grade	IV	V	VI	VII	VIII	IX	X	XI	XII	Month
Quality	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.4	6.7	June

Trabue's tentative standards were set when returns were still somewhat meager. Probably a more authentic way of establishing grade norms would be to obtain the composite scores of all pupils whose results are available. This has been done, and the norms are included at the end of Table I. By smoothing slightly this curve of progress, the following more reasonable set of composite grade norms are presented for use by teachers and pupils as school standards:

In Grade	IV	V	VI	VII	VIII	IX	X	XI	XII	Month
Quality	3.0	3.6	4.2	4.7	5.3	5.5	5.9	6.3	6.7	January

<sup>1</sup> Trabue, M. R., "Supplementing the Hillegas Scale." *Teachers College Record*, January, 1917.



# HOW TO USE THE SCALE

TABLE I

	GRADES					HIGH SCHOOL				Month
	IV	V	VI	VII	VIII	1st yr.	2d yr.	3d yr.	4th yr.	
Trabue's Tentative Standards <sup>1</sup> . . .	3.5	4.0	4.5	5.0	5.5	6.00	6.5	6.9	7.2	June
Mt. Holly, N. J. <sup>2</sup> . . . . .						5.08				
Friends Schools, Brooklyn <sup>3</sup> . . . . .	2.85	3.74	4.40	4.95	4.87	5.68	7.10	6.94	7.20	Feb.
St. Paul, Minn. <sup>4</sup> . . . . .	2.02	3.38	3.54	4.12	4.96	5.83	5.66	6.27	6.64	Feb.
Nassau County, N. Y. <sup>1</sup> . . . . .	2.76	3.42	3.82	4.18	4.53	5.00	5.25	5.68	5.94	Spring
South River, N. J. <sup>1</sup> . . . . .	2.31	2.55	3.78	4.75	5.62	5.18	5.0	5.90	6.30	
Mobile Co., Ala., whites outside of										
Mobile city <sup>1</sup> . . . . .	3.20	3.91	4.34	4.22		5.56	6.38	6.05	6.77	
Mobile city whites <sup>1</sup> . . . . .	3.31	2.85	4.60	4.95		6.69	6.93	7.24	7.54	
54 High Schools in over 35 states <sup>1</sup> .						4.99	5.88	6.38	6.69	
Cold Springs, N. Y. <sup>5</sup> . . . . .	2.95	3.69	4.89	4.96	5.96	5.77	5.72	5.68	7.37	
Woodmere, N. Y. (a private school) <sup>5</sup>	3.15	3.72	4.25	6.60	6.87	6.99				Nov.
Janesville, Wis. <sup>6</sup> . . . . .	2.38	2.78	3.74	3.81	4.47	6.15	6.46			
Middletown, N. J. <sup>7</sup> . . . . .	3.46	4.04	4.67	4.54	5.23	5.18	6.01	6.26	7.04	
Xenia, Ohio <sup>8</sup> . . . . .						5.25				
Idaho Springs, Colo. <sup>9</sup> . . . . .		3.2	3.7	4.3	5.0	5.5	5.0	4.7	6.0	Sept.
Virginia <sup>10</sup> . . . . .						5.42				May
Virginia white boys <sup>10</sup> . . . . .						5.44				May
Virginia colored boys <sup>10</sup> . . . . .						4.85				May
Virginia white girls <sup>10</sup> . . . . .						5.58				May
Virginia colored girls <sup>10</sup> . . . . .						5.02				May
Reading, Pa., Boys H. S. <sup>11</sup> . . . . .						5.17	5.06	5.80	5.85	March
Paterson, N. J. <sup>12</sup> . . . . .	2.22	3.38	3.54	4.12	4.96	5.83	5.66	6.27	6.64	Spring
Salt Lake City, Utah <sup>13</sup> . . . . .	3.58	3.84	4.61	5.16	6.37					May
Lead, S. D. <sup>14</sup> . . . . .	3.57	4.11	4.65	5.02	5.57					June
Butte, Mont. <sup>15</sup> . . . . .	2.34	2.80	3.41	3.77	4.11					May
Newark, N. J. <sup>16</sup> . . . . .	2.39	2.51	3.56	4.33	5.27					
Ethical Culture School, N. Y. City <sup>16</sup>		4.01	4.72	5.39	5.74					
Chatham, N. J. <sup>16</sup> . . . . .	2.95	2.85	4.10	4.02	5.29					
Joplin, Mo. <sup>16</sup> . . . . .	3.60	4.19	4.85	5.34	5.59					
Rockford, Ill. <sup>17</sup> . . . . .				4.99						
LaPorte, Ind. <sup>18</sup> . . . . .	4.10	4.40	5.00	5.80	6.80					
Delaware City, Ohio <sup>19</sup> . . . . .					5.27					Sept.
Delaware Co., Ohio <sup>19</sup> . . . . .					3.94					Sept.
Deadwood, S. D. . . . .	3.0	3.0	3.6	3.6	4.5	4.7	5.6	5.6		
Waterloo, Iowa. . . . .	2.82	4.15	4.14	4.97	5.82	5.14	6.61	7.63		
Chattanooga, Tenn. . . . .	3.57	3.99	4.36	5.00	5.62					
Republic, Mich. . . . .	3.02	3.70	4.30	4.70	4.54	4.63	5.39	6.05	5.78	
Baltimore Co., Md. . . . .		5.15		5.69						
Gary, Ind. <sup>20</sup> . . . . .	2.99	3.26	3.28	3.97	4.58	4.69	5.62	6.42	6.22	Spring
Composite Standards . . . . .	2.98	3.60	4.15	4.71	5.26	5.22	5.87	6.33	6.68	Jan.

<sup>1</sup> From M. R. Trabue, "Supplementing the Hillegas Scale." Teachers College, New York.

<sup>2</sup> From Mt. Holly Survey, Board of Education, Mt. Holly, N. J.

<sup>3</sup> From an unpublished Survey of Friends Schools, Brooklyn, 1919, by Professor N. L. Englehardt and others. Teachers College.

<sup>4</sup> From St. Paul, Minn., Survey. Published by St. Paul Board of Education.

<sup>5</sup> From unpublished reports by the Department of Educational Administration, Teachers College.

<sup>6</sup> From Janesville, Wis., Survey. State Board of Education, Madison, Wis.

<sup>7</sup> From Middletown, N. J., Survey.

<sup>8</sup> From Xenia, Ohio, Survey.

<sup>9</sup> From an unpublished report by Supt. C. E. Green, Idaho Springs, Colo.

The best results can be obtained from this scale by using it only occasionally. It has been shown (see Hagerty, M. E., *School and Society*, IV: 761, and Van Wagenen, M. J., *Journal of Educational Psychology*, XI: 59) that a pupil's progress is usually not regular. A daily application of his themes to the scale would often, therefore, yield results disappointing both to him and to his teacher. Consequently it is recommended that this scale be used only at intervals sufficient to show progress.

In giving a composition test for the purpose of comparing the achievements of a group of pupils with the standards, it is important that the same topic be assigned to all and that the themes be written under as nearly the same conditions as possible. The instructions given to the pupils should conform to those given when the themes which compose the standards were written, and the same length of time should be allowed for writing.

Variations in procedure of testing are almost certain to modify results so greatly as to make them distinctly misleading. Especially is this true with reference to the choice of a topic for the theme. The present writer, for instance, had 386 pupils write upon two topics, "What I Should Like to Do Next Saturday" and "The Most Exciting Incident of My Life." The conditions under which all the pupils wrote were the same, but half of them wrote on the two assignments in the order named above,

<sup>10</sup> From *Virginia Public Schools*, Part II, World Book Company, Yonkers, N. Y.

<sup>11</sup> From an unpublished Report of the Survey of the Boys' High School, Reading, Pa., by the Department of Secondary Education, Teachers College, March, 1920.

<sup>12</sup> From the *Paterson Survey*, by the Department of Educational Administration, Teachers College, Spring, 1918.

<sup>13</sup> From the *Salt Lake Survey*. May, 1915.

<sup>14</sup> From the *Lead, S. D., Survey*. June, 1916.

<sup>15</sup> From the *Butte Survey*.

<sup>16</sup> From the *Paterson, N. J., Survey*.

<sup>17</sup> From the *Rockford, Ill., Survey*.

<sup>18</sup> From *The Indiana University Bulletin*.

<sup>19</sup> From *Ohio State School Survey*. September, 1913.

<sup>20</sup> From Gary, Ind., *Survey*. General Education Board, New York.

while the other half wrote in the reverse order. The median score of all the "Exciting Incident" themes was .78 of a step higher on the *Nassau County Supplement* than was the median score for all the "Saturday" themes. To compare reliably, then, the median achievement of a class which writes upon the "Exciting Incident" theme with Trabue's tentative standard for that year, it is necessary to subtract .78 from the class score, because Trabue's standards are based upon "What I Should Like to Do Next Saturday" themes.

#### CONDITIONS REQUISITE FOR ACCURATE TESTING

To have the conditions of testing as nearly as possible uniform with those under which the sample compositions of the Hudelson Scale were obtained, it will be necessary to conform to the instructions for method of procedure followed in testing the Virginia pupils whose compositions appear in the scale. The instructions were as follows:

#### *Instructions for Testing*

1. Distribute writing materials.
2. Have pupils write at the top of their papers the information which you desire, such as name, grade, age, number of years spent in school, father's occupation, etc.
3. When the pupils are at attention, give them the following instructions:

"I want to see how good a story you can write today. When I give you the title you will write it on the first vacant line; then you will proceed to write the best story you can on that subject. You may relate a true experience, or draw upon your imagination, or both. You will have thirty minutes in which to write your story. If you

finish before the time is up, sit quietly so as not to disturb your classmates. The title of your story is 'The Most Exciting Ride I Ever Had.' [Teacher writes title on blackboard.] Now you may begin your story."

4. At the end of thirty minutes collect the papers promptly.

### VALUE OF THE SCALE FOR CLASSIFICATION OF PUPILS

In the past the classification of pupils has been mostly arbitrary. Some attention has been paid to children of inferior ability, but even here the basis for segregation has been uncertain. Practically nothing has been done in the way of providing for children of superior ability. Pupils of all capacities have been grouped together on the assumptions that there is such a thing as an average pupil and that the good pupils encourage the poor ones. Consequently instruction has been adapted, as far as possible, to the capacity of the central group, with the result that pupils of low ability have been dragged along or allowed to become discouraged and leave school, while the superior pupils have been held back, until, equally discouraged, they have lost their desire to excel.

Careful interpretation of the results of properly administered tests enables a teacher to classify his pupils much more competently than has been possible without such devices. Achievement is due in part to native ability; consequently general-intelligence tests are valuable in measuring adequately a pupil's capacity. But a test of accomplishment in a particular subject, as composition, likewise has great value, for it enables a teacher to classify his pupils in that subject with far greater certainty than by the haphazard method of opinion or by intelligence tests alone.

## TRAINING THE SCORER

Any person who essays to score themes needs to make sure of the reliability of his own judgments before he bases conclusions upon the marks that he gives. This can best be done by comparing the scores which he gives to a set of papers with the average of the scores given to these same papers by a number of trained scorers. With a view to making such comparison easy and dependable, a series of compositions is printed in the following section. These compositions, all upon the same subject, range in merit from a value of 1.8 to values of 6.6, 6.8, 7.2, and 7.8. The scale values of the several themes are printed as a key at the end of the list.

It is recommended that the scorer, particularly one who is using a composition scale for the first time, practice marking these sample compositions without looking at the key. When he has marked all the samples of a series, he can then compare his marks with the key values of the several themes. These key values are the medians of the scores given to the samples by ninety-four judges.

If the scorer is able to evaluate groups of themes with reasonable accuracy, his average score will not err more than an average of .5 from the key scores on ten or more test compositions. To discover his percentage of error, let the teacher score at least ten of the samples given on pages 29 to 45. Let him then compare his scores with the key scores, and list the amounts of his errors, plus or minus. By subtracting his plus errors from his minus errors, or vice versa, he will get his *systematic error*. For example, he may find, by comparing his results with the key list, that his scores are above or below the true values as follows:  $+.5$ ,  $-.5$ ,  $+1.0$ ,  $-.5$ ,  $+1.0$ ,  $-1.0$ ,  $+.5$ ,  $-.5$ ,  $+1.0$ , and  $-.5$ . His total plus errors are thus 4.0, while his total minus errors are 3.0. Subtracting and dividing

by 10, the number of the compositions, to find the average, he finds that he is scoring systematically high by .1 of a step ("systematic error"). This is a negligible error. If, however, his "systematic error" is more than .5 high or low, he should either correct his error by subtracting or adding the amount of his systematic error, or by further practice improve his power to rate themes so as to reduce this "systematic error" to a negligible amount.

## IV

### SAMPLES FOR PRACTICE IN SCORING

#### SERIES I

##### A

#### The Most Exciting Ride I Ever Had

The Most exciting ride that I had was the day after the armest was signe, And it was the best .I had and the one I lik the best, the truck that we were riding in, look lik it was go to strick the one in front of it every minute.

The truck moved on isd the noise of the people, that were on the street making ever kind, of nous that they could make with there hones, and other thing that they had, and this is the Exciting and best that I had for a longe time.

##### B

#### The most exciting Ride I Ever Had

I went on a straw ride to a pickneck in an old magon and had to go over sone Very rough road there were nine or ten of us.

When me reach the place where we were going we felt shuck ut muck but After running and playin at the pick-neck and then to rid home in a wagon we mished that we had came in the car but wa started on our walj when we reached home we all were very tired of riding over such a rough rode that ne thought we would not try a straw ride any more or some of the children that was with us made them slhves sick fron eating so much at the pick-neck. was long before we wanted to go to anothe one ans so we went in the cor ord we made it better.

## C

## The Most Exciting Ride I Ever Had.

The most exciting ride I ever had was about eight years ago in an Excursion Boat. The day was all one could wish for, until about three o'clock in the afternoon when we were leaving for home. The black clouds began to gather and unite directly over our heads. Distant roars of thunder became loud crashes all about us, while the sea, — that beautiful, calm sea of an hour ago, — was rolling and tossing like some angry beast just caught from the jungle. It neither rained nor poured, but what it did do was inexplicable. The clouds just opened and let fall all the water that they had collected during the past three hot weeks.

Inside the boat was all disorder. The rain that ran in one side by the pailsful, drove the people to the other side tipping the boat. Children screamed, women cried softly, while the men stood frozen to the spot, unable to do anything. Suddenly a few men thawed out and ran to put everything possible on the rising side in order to balance the boat.

## D

## The Most Exciting Ride I Ever Had.

When I was but a little girl about eight years of age, my mother took me out for an horse back ride. We rode along very smoothly for some time. But finally a car came along and frightened my horse and she began to run. She was not running away, but I thought so. I screamed for mother, but she had gone out of sight and did not hear me. Now by this time I was so excited and nervous that I couldn't hold on any longer. So I



jumped off and ran as fast as I could to catch mother, but all was invain.

When I reached the creek I found my horse waiting patiently for me. So I jumped on her and estarted for home, after having a very exciting ride.

## *E*

### The Most Exciting Ride I Ever Had.

It was in the summer time when school had closed for three long months. I had worked through the fall and spring and saved up money enough to buy a bicycle which I had just received through shipment.

It was one sunner day that I was just learning to ride. The other boys had there wheels and were showing me how they could do stunts on them which looked very easy to me.

Having learned to balance the bicycle I soon started to try the stunts also. I rode up to the top of the hill and started down again, trying to guide with out my hands on the bicycle. At first I felt nervious but soon overcame that and before I thought I was going down the hill with all speed with my hands off of the handlebar.

I thought that I was big doing a stunt like that. I soon caught sight of a half of a brick laying in the middle of the road. right in my track. I could not turn the front wheel without my hands and before I could reach the bar the front wheel had struck the brick throwing me over on the hard road several feet.

The sharp fine rocks had torn my stockings a little and made a few scralches on my hand which soon began to bleed.

*F*

The Most Exciting Ride I Ever Had

There were several girls going out for a ride on an automobile one day. Every one was ready, and had rode several miles out in the country through nothing, but woods for about ten miles. No one saw a car coming up the hill, and our car ran into the other car broke the lights, wind shield, and one man cut himself very badly with the wind shield before he was thrown out against a pine tree. While the car with several girls on it were not hurt but the two from wheels were smashed, and also the fender. All the girls were glad when they returned home from such an exciting ride.

*G*

The Most Exciting Ride I ever Had

One morning as we were coming to school on a horse and buggy. We were driving along not noticing the horse. All at once the horse started to back. when she did we hit her with the whip.

Then she turned around and ran into the fence and turn the buggy all most over. when we got her back in the road she started kicking. She kicked untill she broke the buggy shaves.

My Brother jumped out and caught her in the bit untill we could take the horness of then he carried he on home.

*H*

The Most Exciting Ride I Ever Had

On one bright Sunday afternoon we went for a little ride to the Naval Base. We arrived all safe and enjoyed our selves very much.

On our way back home we were crossing a bridge and two men were standing in the center of the bridge argueing. We blew oru horn for them to move one moved but the other stood still and gazed at the automobile we were in. Father pressed down on his brakes as quickly as he could but it seemed to late fortunatly the man had long legs and caught hold of the front mudfender and leaped out of the way. I was excited and do not wish to experence another ride like it.

*I*

The Most Exciting Ride I Ever Had.

Once a man came to Union Level in a Premier car to show it the people and try to get them to buy it. He told us to get in which we did and before I got out I wished I hadn't gotten in. We Rode about htree miles. I think he tried to see how fast it would go for he went nearly all the way at the speed of about fifty six miles an hour. I wanted to get out but could not so I had to stay in until he stopped, but was very scared.

*J*

The Most Exciting Ride I Ever Had.

One day last summer some friends induced my family to allow me to go to Fredericksburg with them in their automobile. Fredericksburg is a little town nestling among the hills of Virginia and is about two hundred miles from Norfolk. We started from Norfolk early on a bright morning in June. After traveling all day we reached Richmond just as twilight softly enfolded the world. We were very tired and not a little crestfallen because we had hoped to reach Fredericksburg by four o'clock, and here it was almost night and we were still seventy miles from

our destination. It was a wonderful night with a soft scented breeze playing over the earth, and as the road before us was concrete we decided to drive on and try to reach Fredericksburg that night.

Half way between Fredericksburg and Richmond is a long, winding hill that slopes gently down to a large stream which is spanned by a bridge. We reached the hill and coasted slowly down. The road before us stretched like a white ribbon except in some places where tall trees bent over and formed shadows. Turning a bend in the road we saw on one side of the road a large camp fire brightly gleaming and just beyond the waters of the stream murmured among the rushes. We were going very slowly and just as we were opposite the fire a single command rang out in the silent woods—"Halt!" Our car stopped and was surrounded by soldiers. The leader explained that they were a company of soldiers marching south and when attempting to cross the bridge with a crash the bridge had broken and two men in two large trucks had been hurled into the sullen waters beneath. One was killed; the other was rushed back to Fredericksburg.

While he was speaking the sky above had turned an angry black, and just as he concluded a streak of lightning darted across the heavens and was followed by a deep crash of thunder. The very earth seemed to shake as crash after crash of thunder tore across the heavens. Aroused by the fury of the tempest the wind broke forth and like a cyclone tore through the trees.

We turned and reached Richmond a little after midnight, cold, wet and tired.

The next day was beautiful so we rode on and reached Fredericksburg.

SERIES II

A

The Most Eeciting Ride I ever Had

I am a little girl and my name is Helen. I am crazy about horses and I'll tell you about an scperience I had with them one time.

Father bought me a black hunter. He realy danced with spirit. I was delighted and insisted that I should take a ride at once. Mother objected but Father said it would be all right so I went. After we, (the horse & myself), had raced along for an hour I saw a cloud of dust coming along in front of us, a thundering noise became audible to. On one side was the Ravine about 10 feet wide, on the other was the stampede. I turned towards the Ravine—the only mode of escape. The hunter was trambling with excitement. Urging him forward we galloped to the side of the ravine. He paused a moment but the thundering of the oncoming cattle spurred him on. With one tremendus leap he cleared the ravine and came down shaking with fear. I was to frightened to say a word and I sat and watched the formost steers go plunging down into the ravine. I rode slowly home and I believe it was the most exciting ride or incident I ever experienced

B

The most exciting ride I ever had.

The most exciting ride I ever had was in an automobile, when, my brother and I were riding down the road to town there was something the mater with the car, and we could not do any thing with it. when we had gotton down the road about one and  $\frac{1}{2}$  miles we becan to speed up on account of a little grade. The car would not throddle

## ENGLISH COMPOSITION SCALE

down, and the breaks were not strong enough to hold and stop the car. As we were going around a turn we met seven or eight loaded wagons and we were going so that we could not stop the car.

We tried to pull out of the road but it was too narrow to pass in this place so we pulled up on the bank, and as we did the car stopped. This was the most exciting ride I ever had.

### C

#### The most Exciting Ride I Ever Had.

Cranking the car, we started down the lane and were soon in the road which was crowded with many vehicles. After riding for about two miles we had to cross over a bridge nearly a mile long. We were riding swiftly over the bridge when we saw someone meeting us. Realizing that we would meet in a narrow place on the bridge we put on speed to get to a turnout, but just at the same time the gentleman confronting us, put on speed and as the driver of our car tried to pass the other on the narrow bridge the back of the car slipped, hit the railing, and came near throwing the passengers overboard into the deep water below.

The air was filled with shrieks of fear as the big car rolled on the center of the bridge again, and it was a very excited group that after all of the excitement arrived safely at their destination.

### D

#### The Most Exciting Ride I Ever Had.

Once a girl and I went to a club meeting which we had gotten up. We went there in a pony cart which belonged to the girl across the street. Going up the street, we could

not make him go fast. If we had been walking we could have made better time. Just at that time a large dog came barking out of some one's yard. The pony jumped and ran as hard as he could. We were scared almost to death, even too scared to have enough sense to take the whip and hit the dog. We kept at this rate for quite a ways up the street until the pony got quieted down. When he did, we sank back in our seats with relief.

### *E*

#### The most Exciting Ride I Ever Had

One day I was going down a steep hill on my bicycle when all of a sudden my chain came off and hurt my brake unless faster and faster I went unable to stop at the foot of the hill was a railroad and along this railroad a train was coming it seemed to me that I was going to meet the train. I got so excited that I could not keep the wheel in the road and I ran off and had a ride it through me over the hand rails but I landed unhurt.

### *F*

#### The Most Exciting Ride I Ever Had.

One summer afternoon about four o'clock my father and I were returning home from a long trip on business. The day was hot and dry. There had been no rain for several days but over the distant hill we could see the approaching thunder storm.

Then the race began. We were in an open car which meant that if we did not hurry we would get wet. The homeward road was lonely with only a house here and there. Thinking it better to race home rather than stop my father began to speed the car until finally it seemed as if we were hardly touching the ground. We had covered

a distance of forty five miles in a few minutes. It was begining to rain lightly. Then it fell it torrents I was holding on for dear life when a loud "bang bang" made me jump. A tire had bursted and there we were, We could not see a house any where but remembering the road I remembered that I had seen a house near here. I had run a little way back when I hit some thing hard. I saw it was the pavement and followed it. I was surprised to see a small cottage. I called my father and we remained there until the slorm was over.

### G

#### The Most Exciting Ride I Ever had.

Ane day I was going to my uncle in a car. But be fore ue got there ue got in the creep and could not get out there had been a guily whash aut and if we starled to go an the car would wreck and through us out. so we had to stay there untill about tno mills fefore they could get any horses to pull us out of the creep- So ne did not get there un till a bout nine o clock that night.After ne got there ne Staid a few day and comiig back the car turend over his arm this was the most exciting ride I ever had.

### H

#### The Most Exciting Ride I Ever Had.

Last Sunday I was invited to go on a automobile ride with some friends. We started at 10 o'clock and our plans were to take lunch and be home promptly at 6 o'clock, because the car was promised to someone else. Every one of us were anxious to take a country ride so we went almost fifty miles out.

Somehow the day passed more quickly than we thought. I looked at my watch and saw that we had only one hour



in which to get home. Hurridly we packed in the car and our driver started it with a jerk which nearly threw me out. Then came the long, steep hills. Over them we dashed, I held tightly to the girl by me. Presently we saw that the driver was losing control of the car, so all on the rear seat began to scream. It was useless, for nothing could keep us from being thrown right into the ditch ahead. Crash! it went, turning over twice and strewing us like apples rolling out of a basket. No one was seriously injured, but we had to hire a car to get home in. We disappointed the party waiting for their car. However, it taught us that it isn't so well to hurry at a risk of a persons life.

*I*

The Most Exciting Ride I ever Had.

It was on a sunday May 11. 1919 When a friend of mine came to my house and asked me if I would like to go riding with him on our bycicles. It was hot that day and we wore no coats. We had a knapsack which I strapped on my back with something to eat in it,. We were about 5 miles out when one of the boys who was with us had a blow out. We fixed it so he could ride home and left him. After we had gone about 20 miles and turned back to find we had taken the wrong road. One of the boys who was an scout had a compass and at last we found the right road. We arrived at Richmond about eight O'clock. We all were tired and slept soundly that night.

*J*

The Most Exciting Ride I Ever Had.

When I was just a little girl I took a trip from Philadelphia to Petersburg, all the way I rode on a train which

was very amusing to me. I looked out of the window nearly all of the time and was very interested in every thing I saw, but the most interesting of all things to me were the people I saw along the rail road at a little distance of, they seemed no more than a bout a foot tall to me, the houses seemed little doll houses. In fact I did think that th people were dolls which had the power of moving about. I told mother that I would get me one of them to play with when we got to Petersburg, she laughed then which I could not under stand, but often since I have thought of it and have laughed at my own self. I would not mind taking that trip over for as far as I can remember it was the most interesting ride I have ever had.

### SERIES III

#### A

#### The Most Exciting Ride I Ever Had.

One Sunday afternoon my father told me to get on my coat and be ready to take a speedy ride as he wanted to try out the Marcer which he bought the day before. In a half hour everything was ready and we started out.

We went through the city at a fair rate of speed as my father did not want to pay a fine before we had a good ride. When we reached the state road we started to speed up and at last we found ourselves going sixty miles an hour. As we flew past one car I happened to look back and I saw a country policeman stand in the middle of the road staring at us. As it had rained the day before the roads were quite slippery and but last we had to slow down but we were to late for when we came to our senses we found that the car hat hit a tree and we had to send to

the city to get a truck to carry home the remains of our once beautiful red Mercer.

*B*

The most Exciting Ride I Ever Had.

The most exciting ride I ever had was when the driver ran into a ditch. A party were going on a picnic about five miles away and so we went on cars.

We were going along very fast when we saw another car coming toward us. We were going so fast it was impossible to stop so the driver took his hands from the wheel and let the car go into the ditch. The girls screamed but no one was hurt because the engine had choked in the mud and water. After the other car passed the boys pushed it out and we started again. We rode fast the rest of the way got there before any body else did. we also had a good time on our way back for the took a long drive before reaching home.

*C*

The Most Exciting Ride I Ever Had.

One afternoon I got a crowd of boy, and we had an auto so we started riding. We went about a mile when we had a blow-out it was soon fixed and we started again. As we were climbing a steep mountain and at a sharp curve we met another car it was just wide enough but it was so sudden a meet that his car went over the side of the steep valley. The car happened to hit a tree and and landed on all four wheels. We got out and went down to see how hurt the people we none of them were badly hurt so we carried them to town to be treated by the doctor. We do not expect to go again soon.

*D*

Most Exciting Ride I ever had

Once in the city of Paris I made a visit to my uncle. He was an engineer to a large tank which was to be maned to the front. Now it caught my eye as Mostly a traction engine that we used at harvest time in old Virginia I was a lad of thirteen years.

Uncle told me if the chief commandant did not object he would take me as far as Alsace-Lorraine. Now I felt as large as uncle himself. As we creeping along the foreign roads. Same distance from Paris we were overlooked by some Huns. Uncle George plowed through the lines and joined some other tanks which had been posted for the night. We both were happy when we reached Paris again.

*E*

The Most excited ride I every had.

One day I left Home with the horse & buggy to go to see my Cousin, and papa told me not to drive fast, I started off not listening to him it was a sharp corner at the forks of the road and the horse went around the corner a little too fast, and caused the buggy to tilt a little and it got me a excited and nervous. The buggy top scared the horse which caused the horse to run, then I got so excited that I could not hold the horse back.

*F*

"The Most exciting Ride I Ever Had".

It was on one cold morning when the ground was covered with snow when we got a telegram to come to town at once.

We left on car early that morning when going down

asteep hill the car got under my contral and ran in a deep ditch but it happened that all was safe.

While going on down the road a little faather I ran in a car, and it threw us out and broke one of the little children arm and struct one on the head and was senseless, but after a little while she recovered.

The car was serious damaged so I never have been able to run it sense.

## G

### The Most Exciting Ride I Ever Had.

We were horse back riding the other day and went up by the Old Mill about 7 miles from town. We were racing on the beach when a fell and cut his lag on a large rock. And when we were going hose we had the most exciting ride I ever had wer were gall oping down the road when may horse got skeered and was running away with me on top. I was holding on for dear life but thought I would fall every leep he took I tried evey way I new to stop him but could not and he kept runing as fast as he could until we reashed the stable wear I had hired him. So I stayed there and waited for the other boys to come in and it was an half hour before the came.

## H

### Most Exciting Ride I Eere Had,

The most exciting ride I ever had was a ride out in the country the car beoke down and and we had to wait a l ong tine after ne got it fixed we starte again and ran in a nothe automobl and brol the fenders in,we had no great damage and know body was hurt ne nan over a hog on the way back and had lots of thing happerd to us, This was the most erciting ride I ever had

*I*

The Most Exciting Ride I Ever Had.

When I was a small girl, I went to visit my uncle in California. He was the owner of a large stock farm and consequently had many cattle.

There was an old cow with which my little cousins all played, got on her back without saddle or bridle and rode with extreme safety around the stock yard. But never by any inducement could I be persuaded to mount "Old Bet.

Well one fine morning after I had stood about all the teasing and being called 'fraid cat" and such names I could, I went out and mounted "Bet" as I thought, very easily because she was lying down. but soon I saw my mistake, for she almost instantly sprung to her feet while by marvelous work I retained my seat. The cow never once stopped after she got up, but curling her tail upon her back and lowering her back with a mighty bellow, set out at such a pace, I made sure I was done for.

She galloped along right smooth ly until she reached a hill which she started down at break neck speed. Suddenly she humped her back lowered her head and stopped short, and off I went terrible ly frightened but uninjured.

I walked home which was only a short way and as no one had missed me, I never told the children about the most exciting ride I ever had.

*J*

The most Exciting Ride I Ever Had

My Disere For a Horse

The most exciting ride I ever had. Was on a old feord. I left Coutland going to Norfelnk about 6 O'clock A.M.

on the old feord. The tირer were bad, And we left Coust-land on three cyenden. After we had pane d Franklin about two Miles it began to rain. So we put up the top, but we found the top verry holy. And after we had gone about two miles more and the coils got weet. and the car would not buge. So then my greater disere was for a horse and not a shackly feord.

# ENGLISH COMPOSITION SCALE

## SCORE KEY FOR PRACTICE LISTS

SERIES		SERIES II		SERIES III	
Theme	Score	Theme	Score	Theme	Score
<i>A</i>	1.8	<i>A</i>	6.8	<i>A</i>	5.8
<i>B</i>	1.8	<i>B</i>	4.0	<i>B</i>	4.5
<i>C</i>	7.2	<i>C</i>	5.5	<i>C</i>	3.6
<i>D</i>	5.7	<i>D</i>	5.5	<i>D</i>	3.4
<i>E</i>	6.3	<i>E</i>	1.8	<i>E</i>	2.6
<i>F</i>	4.0	<i>F</i>	6.5	<i>F</i>	3.1
<i>G</i>	3.0	<i>G</i>	1.9	<i>G</i>	3.0
<i>H</i>	4.5	<i>H</i>	6.8	<i>H</i>	1.9
<i>I</i>	5.0	<i>I</i>	4.5	<i>I</i>	6.6
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